



FluoSolv[®] 7100 Aerosol

3M Novec Contact Cleaner Replacement Fluid

Technical Information

NuGenTec FluoSolv[®] 7100 Aerosol

Introduction

FluoSolv[®] 7100 Aerosol is a non-flammable, high-performance contact cleaner designed for safe and effective removal of light oils, dust, and particulates from sensitive electronic and electrical equipment. Based on hydrofluoroether (HFE) chemistry, this cleaner provides excellent solvency, fast drying, and superior compatibility with delicate substrates. It is engineered as a direct, drop-in replacement for 3M[™] Novec[™] Contact Cleaner (7100 Aerosol).

Material Compatibility

FluoSolv[®] 7100 Aerosol is compatible with a wide range of materials:

- **Metals:** Aluminum, Copper, Carbon Steel, 302 Stainless Steel, Brass, Molybdenum, Tantalum, Tungsten, Cu/Be Alloy C172, Mg Alloy AZ32B
- **Plastics:** Acrylic (PMMA), Polyethylene, Polypropylene, Polycarbonate, Polyester, Epoxy, PET, Phenolic, and ABS
- **Elastomers:** Butyl Rubber, Natural Rubber, Nitrile Rubber, and EPDM. *Some swelling of PTFE and Silicone Rubber. Some surface oxidation of Copper during heat aging.

Key Features & Benefits

- Non-flammable - safe to use on energized equipment
- Fast drying, low odor - minimizes downtime and improves operator comfort
- Residue-free - leaves no film behind on cleaned surfaces
- Excellent materials compatibility - safe for most plastics, elastomers, and metals
- Low toxicity - reduced operator risk during use
- Zero Ozone Depletion Potential (ODP = 0)
- Low Global Warming Potential (GWP ≈ 320)
- VOC-exempt in many jurisdictions - compliant with CARB and OTC regulations

Applications

- Cleaning of electrical contacts, connectors, and relays
- Maintenance of printed circuit boards (PCBs) and electromechanical devices
- Safe cleaning of sensors, switches, scales, and control panels
- General precision cleaning in electronics, aerospace, and medical device industries

Physical Properties

Property	NuGenTec FluoSolv® 7100 Aerosol	HCFC 141b	HCFC-225
Boiling Point °C	61	32	54
Liquid Density (g/mL)	1.52	1.23	1.55
Surface Tension (dynes/cm)	13.6	19.3	16.2
Solubility of Solvent in Water (ppmw)	<12	210	330
Vapor Pressure at 20°C (mmHg)	202	569	290
Global Warming Potential (GWP)	320	700	180/160
Ozone Depleting Chemical	0	0.10	0.03
Volatile Organic Compounds (VOC)	Exempt	Exempt	-
Flash point	None	None	None

Free Solvent Sample and Vapor Degreaser for Testing

NuGenTec offers a small loaner vapor degreaser and a loaner 5-gallon pail to assist with your testing. The loaner vapor degreaser plugs into a standard wall outlet and fits on a standard pallet. This allows you to test our FluoSolv® solvent in your own controlled environment without immediately changing the solvent in your current equipment.

FluoSolv® 7100 Aerosol is available for purchase in three package sizes:

- 55-gal phenolic lined metal drums
- 5-gal phenolic lined pails
- 1-gal HDPE plastic bottles

For further information about FluoSolv® 7100 Aerosol for testing or purchasing please contact:

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